

What is claimed is:

1. A cryptographic communication method for use in
cryptographic communication of information through
5 communication line among plural CPUs wherein

cryptographic algorithms containing chaos block
encryption and chaos stream encryption are installed in each
of said plural CPUs and

said plural CPUs carry out cryptographic communication
10 of information by combining said chaos block encryption and
said chaos stream encryption.

2. A cryptographic communication system constructed by
connecting plural CPUs through communication line for carrying
15 out cryptographic communication among the CPUs, wherein

said plural CPUs, after enciphering a plaintext code
which is a secrecy object by chaos block encryption, encipher
by chaos stream encryption and transmits an obtained cipher
code, and

20 after synchronously restoring a received cipher code
by said chaos stream encryption, restore by said chaos block
encryption so as to obtain an original plaintext code.

3. A cryptographic communication system constructed by
25 connecting plural CPUs through communication line for carrying
out cryptographic communication among the CPUs, wherein

said plural CPUs, after enciphering a plaintext code
which is a secrecy object by chaos block encryption, encipher
by chaos stream encryption and transmits an obtained cipher
30 code, and

after synchronously restoring a received cipher code
by said chaos stream encryption, verify a block cipher key
and after it is certified that it is a legal access, restore
by said chaos block encryption so as to obtain an original
35 plaintext code.

4. A chaos cryptographic communication method as claimed
in claim 1 wherein respective data bases for a cipher key,
a cipher table and a restoration table in said chaos block
encryption is controlled unitarily by providing with an
5 appropriate initial value $x(0)$.

5. A chaos cryptographic communication method as claimed
in claim 2 wherein respective data bases for a cipher key,
a cipher table and a restoration table in said chaos block
10 encryption is controlled unitarily by providing with an
appropriate initial value $x(0)$.

6. A chaos cryptographic communication method as claimed
in claim 3 wherein respective data bases for a cipher key,
15 a cipher table and a restoration table in said chaos block
encryption is controlled unitarily by providing with an
appropriate initial value $x(0)$.